

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("20020099581").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 08:28
L2	41	(decision with (tree or hierarch\$3 or structure) with heuristic)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:40
L3	9	((generat\$3 or construct\$3 or creat\$3 or build\$3) with heuristic with decision with (tree or hierarch\$3 or structure))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 08:29
L4	6	3 and @ad<"20040414"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 08:41
L5	310	(decision with (tree or hierarch\$3 or structure) with (convert\$3 or translat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 08:41
L6	4	2 and 5 and @ad<"20040414"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:42
L7	2	"824108".apn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:37
L8	1	(decision with (tree or hierarch\$3 or structure) with heuristic with scor\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:42

EAST Search History

L9	224	(decision with (tree or hierarch\$3 or structure) with scor\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:46
L10	14	9 and 5 and @ad<"20040414"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:42
L11	1	9 and 5 and @ad<"20040414" and heuristic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:48
L12	21	(decision with (tree or hierarch\$3 or structure) with (convert\$3 or translat\$3) with (predict\$3 or estimat\$3 or recommend\$3 or interest\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:47
L13	20	(decision with (tree or hierarch\$3 or structure) with (convert\$3 or translat\$3) with (predict\$3 or estimat\$3))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:47
L14	0	9 and 13 and @ad<"20040414" and heuristic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:48
L15	2	9 and 13 and @ad<"20040414"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:49
L16	0	(707/103).ccls. and 13 and @ad<"20040414"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:53

EAST Search History

L17	0	(707/102).ccls. and 13 and @ad<"20040414"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:54
L18	0	(707/6).ccls. and 13 and @ad<"20040414"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:53
L19	5	(707/102).ccls. and 9 and @ad<"20040414"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/24 09:54
S1	2	("6832101").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/22 18:07
S2	2	("20040004663").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/22 18:08
S3	2	("6636648").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/02/22 18:08

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1 [Special issue: Game-playing programs: theory and practice](#)



M. A. Bramer

April 1982 **ACM SIGART Bulletin**, Issue 80

Publisher: ACM Press

Full text available: [pdf\(9.23 MB\)](#)

Additional Information: [full citation](#), [abstract](#)

This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

2 [Web Site Analysis: Statistical profiles of highly-rated web sites](#)



Melody Y. Ivory, Marti A. Hearst

April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves CHI '02**

Publisher: ACM Press

Full text available: [pdf\(1.78 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We are creating an interactive tool to help non-professional web site builders create high quality designs. We have previously reported that quantitative measures of web page structure can predict whether a site will be highly or poorly rated by experts, with accuracies ranging from 67--80%. In this paper we extend that work in several ways. First, we compute a much larger set of measures (157 versus 11), over a much larger collection of pages (5300 vs. 1900), achieving much higher overall accur...

Keywords: World Wide Web, automated usability evaluation, empirical studies, web site design

3 [eTuner: tuning schema matching software using synthetic scenarios](#)

Yoonkyong Lee, Mayssam Sayyadian, AnHai Doan, Arnon S. Rosenthal

October 2006 **The VLDB Journal — The International Journal on Very Large Data**

Bases, Volume 16 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: [pdf\(1.01 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Most recent schema matching systems assemble *multiple components*, each employing a particular matching technique. The domain user must then *tune* the system: select the

right component to be executed and correctly adjust their numerous "knobs" (e.g., thresholds, formula coefficients). Tuning is skill and time intensive, but (as we show) without it the matching accuracy is significantly inferior. We describe eTuner, an approach to *automatically* tune schema matchin ...

Keywords: Compositional approach, Machine learning, Schema matching, Synthetic schemas, Tuning

4 Using a mixture of probabilistic decision trees for direct prediction of protein function



Umar Syed, Golan Yona

April 2003 **Proceedings of the seventh annual international conference on Research in computational molecular biology RECOMB '03**

Publisher: ACM Press

Full text available: pdf(306.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We study the direct relationship between basic protein properties and their function. Our goal is to develop a new tool for functional prediction that can be used to complement and support other techniques based on sequence or structure information. In order to define this new measure of similarity between proteins we collected a set of 453 features and properties that characterize proteins and are believed to be correlated and related to structural and functional aspects of proteins. Among thes ...

Keywords: decision trees, functional prediction, sequence-function relationships

5 Propositional Satisfiability and Constraint Programming: A comparative survey



Lucas Bordeaux, Youssef Hamadi, Lintao Zhang

December 2006 **ACM Computing Surveys (CSUR)**, Volume 38 Issue 4

Publisher: ACM Press

Full text available: pdf(878.93 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Propositional Satisfiability (SAT) and Constraint Programming (CP) have developed as two relatively independent threads of research cross-fertilizing occasionally. These two approaches to problem solving have a lot in common as evidenced by similar ideas underlying the branch and prune algorithms that are most successful at solving both kinds of problems. They also exhibit differences in the way they are used to state and solve problems since SAT's approach is, in general, a black-box approach, ...

Keywords: SAT, Search, constraint satisfaction

6 Shape-based retrieval and analysis of 3D models



Thomas Funkhouser, Michael Kazhdan

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

Publisher: ACM Press

Full text available: pdf(12.56 MB) Additional Information: [full citation](#), [abstract](#)

Large repositories of 3D data are rapidly becoming available in several fields, including mechanical CAD, molecular biology, and computer graphics. As the number of 3D models grows, there is an increasing need for computer algorithms to help people find the interesting ones and discover relationships between them. Unfortunately, traditional text-based search techniques are not always effective for 3D models, especially when queries are geometric in nature (e.g., find me objects that fit into thi ...

7

Classification and regression: money *can* grow on trees



Johannes Gehrke, Wie-Yin Loh, Raghu Ramakrishnan
August 1999 **Tutorial notes of the fifth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '99**

Publisher: ACM Press

Full text available: [pdf\(2.95 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

With over 800 million pages covering most areas of human endeavor, the World-wide Web is a fertile ground for data mining research to make a difference to the effectiveness of information search. Today, Web surfers access the Web through two dominant interfaces clicking on hyperlinks and searching via keyword queries. This process is often tentative and unsatisfactory. Better support is needed for expressing one's information need and dealing with a search result in more structured ways than ...

8 A survey of Web metrics



Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick
December 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 4

Publisher: ACM Press

Full text available: [pdf\(289.28 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The unabated growth and increasing significance of the World Wide Web has resulted in a flurry of research activity to improve its capacity for serving information more effectively. But at the heart of these efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. This observation points towards measurements and models that quantify various attributes of web sites. The science of measuring all aspects of information, especially its storage and retrieval or ...

Keywords: Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, quality metrics

9 The Web as a parallel corpus

Philip Resnik, Noah A. Smith
September 2003 **Computational Linguistics**, Volume 29 Issue 3

Publisher: MIT Press

Full text available: [pdf\(539.83 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Parallel corpora have become an essential resource for work in multilingual natural language processing. In this article, we report on our work using the STRAND system for mining parallel text on the World Wide Web, first reviewing the original algorithm and results and then presenting a set of significant enhancements. These enhancements include the use of supervised learning based on structural features of documents to improve classification performance, a new content-based measure of translation ...

10 Machine learning in automated text categorization



Fabrizio Sebastiani
March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Publisher: ACM Press

Full text available: [pdf\(524.41 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The automated categorization (or classification) of texts into predefined categories has witnessed a booming interest in the last 10 years, due to the increased availability of documents in digital form and the ensuing need to organize them. In the research community the dominant approach to this problem is based on machine learning techniques: a general inductive process automatically builds a classifier by learning, from

a set of preclassified documents, the characteristics of the categories. ...

Keywords: Machine learning, text categorization, text classification

11 Interruptible anytime algorithms for iterative improvement of decision trees



Saher Esmeir, Shaul Markovitch

August 2005 **Proceedings of the 1st international workshop on Utility-based data mining UBDM '05**

Publisher: ACM Press

Full text available: pdf(223.84 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Finding a minimal decision tree consistent with the examples is an NP-complete problem. Therefore, most of the existing algorithms for decision tree induction use a greedy approach based on local heuristics. These algorithms usually require a fixed small amount of time and result in trees that are not globally optimal. Recently, the LSID3 contract anytime algorithm was introduced to allow using extra resources for building better decision trees. A contract anytime algorithm needs to get its reso ...

Keywords: anytime algorithms, anytime learning, cost-quality tradeoff, decision trees, hard concepts

12 Papers: Decision Tree Learning Algorithm with structured attributes: application to verbal case frame acquisition

Hideki Tanaka

August 1996 **Proceedings of the 16th conference on Computational linguistics - Volume 2**

Publisher: Association for Computational Linguistics

Full text available: pdf(558.59 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

The Decision Tree Learning Algorithms (DTLAs) are getting keen attention from the natural language processing research community, and there have been a series of attempts to apply them to verbal case frame acquisition. However, a DTLA cannot handle structured attributes like nouns, which are classified under a thesaurus. In this paper, we present a new DTLA that can rationally handle the structured attributes. In the process of tree generation, the algorithm generalizes each attribute optimally ...

13 Data clustering: a review



A. K. Jain, M. N. Murty, P. J. Flynn

September 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(636.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...


Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

14 Advances in discriminative parsing

Joseph Turian, I. Dan Melamed

July 2006 **Proceedings of the 21st International Conference on Computational Linguistics and the 44th annual meeting of the ACL ACL '06**

Publisher: Association for Computational Linguistics

Full text available:  pdf(112.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The present work advances the accuracy and training speed of discriminative parsing. Our discriminative parsing method has no generative component, yet surpasses a generative baseline on constituent parsing, and does so with minimal linguistic cleverness. Our model can incorporate arbitrary features of the input and parse state, and performs feature selection incrementally over an exponential feature space during training. We demonstrate the flexibility of our approach by testing it with several ...

15 Biclustering Algorithms for Biological Data Analysis: A Survey

Sara C. Madeira, Arlindo L. Oliveira

January 2004 **IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)**, Volume 1 Issue 1

Publisher: IEEE Computer Society Press

Full text available:  pdf(1.28 MB) Additional Information: [full citation](#), [references](#), [citations](#)

Keywords: Biclustering, simultaneous clustering, coclustering, subspace clustering, bidimensional clustering, direct clustering, block clustering, two-way clustering, two-mode clustering, two-sided clustering, microarray data analysis, biological data analysis, gene expression data.

16 Multidimensional divide-and-conquer



Jon Louis Bentley

April 1980 **Communications of the ACM**, Volume 23 Issue 4

Publisher: ACM Press

Full text available:  pdf(1.73 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Most results in the field of algorithm design are single algorithms that solve single problems. In this paper we discuss multidimensional divide-and-conquer, an algorithmic paradigm that can be instantiated in many different ways to yield a number of algorithms and data structures for multidimensional problems. We use this paradigm to give best-known solutions to such problems as the ECDF, maxima, range searching, closest pair, and all nearest neighbor prob ...

Keywords: algorithmic paradigms, analysis of algorithms, closest-point problem, computational geometry, data structures, empirical cumulative distribution functions, maxima problems, multidimensional searching problems, range searching

17 A Survey of Analysis Techniques for Discrete Algorithms



Bruce Weide

December 1977 **ACM Computing Surveys (CSUR)**, Volume 9 Issue 4


Publisher: ACM Press

Full text available:  pdf(2.23 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

18 World Wide Web: Mining the web for answers to natural language questions

Dragomir R. Radev, Hong Qi, Zhiping Zheng, Sasha Blair-Goldensohn, Zhu Zhang, Weiguo Fan, John Prager


-  October 2001 **Proceedings of the tenth international conference on Information and knowledge management CIKM '01**
Publisher: ACM Press

Full text available:  [pdf\(1.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The web is now becoming one of the largest information and knowledge repositories. Many large scale search engines (Google, Fast, Northern Light, etc.) have emerged to help users find information. In this paper, we study how we can effectively use these existing search engines to mine the Web and discover the "correct" answers to factual natural language questions. We propose a probabilistic algorithm called QASM (Question Answering using Statistical Models) that learns the best query para ...

19 Temporal sequence learning and data reduction for anomaly detection

-  Terran Lane, Carla E. Brodley
 August 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue 3
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Full text available:  [pdf\(628.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The anomaly-detection problem can be formulated as one of learning to characterize the behaviors of an individual, system, or network in terms of temporal sequences of discrete data. We present an approach on the basis of instance-based learning (IBL) techniques. To cast the anomaly-detection task in an IBL framework, we employ an approach that transforms temporal sequences of discrete, unordered observations into a metric space via a similarity measure that encodes intra-attribute dependence ...

Keywords: anomaly detection, clustering, data reduction, empirical evaluation, instance based learning, machine learning, user profiling

20 Face recognition: A literature survey

-  W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld
 December 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 4
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As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level of maturity, their success is ...

Keywords: Face recognition, person identification

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IEEE JNL IEEE Journal or Magazine

IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

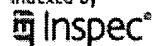
IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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